

viewed program automatically at a preset time, the time information comprising a beginning time with respect to the currently viewed program.

REMARKS

INTRODUCTION:

Reconsideration of this application, as presently amended, is respectfully requested. Claims 1, 3-17, 20-31 and 33-35 are pending in this application. Claims 1, 6-7, 13, 17, 21-22, 26, 28, and 33-35 have been amended, and claim 18 has been canceled without prejudice or disclaimer.

EXAMINER INTERVIEW

As a preliminary matter, it is noted that an in-person interview was conducted between the Applicant's representative and Examiner Bui, and Supervisory Primary Examiner Faile. The Examiners are thanked for their time.

In the interview, it was argued that the Examiner's cited references do not disclose "displaying next program information when a remaining program time reaches a preset time," as recited, for example, in claim 7. This argument was presented in the Applicant's response filed June 27, 2001. At the time of the interview, the Examiners appeared to agree with the Applicant's representative on this point.

In the present Office Action, the Examiner has maintained the rejection of claim 7. The Applicant respectfully acknowledges the Examiner's right to maintain the rejection. However, it is submitted that the Examiner has not specifically responded to the Applicant's arguments in the previous Response and the interview. Instead, the Examiner has simply reiterated the previous reasons for the rejection. Accordingly, clarification of the rejection and

careful consideration of the below arguments is respectfully requested.

REJECTIONS IN VIEW OF 35 U.S.C. §102:

At pages 2-8, item 3, of the Office Action, claims 1, 3-7, 10-18, 20-24, 28-31 and 33-35 are rejected under 35 U.S.C. §102 as being anticipated by U.S. Patent No. 5,727,060 to Young et al.

Using claim 7 as an example, this claim recites “displaying next program information when a remaining program time reaches a preset time.” Thus, the triggering event in displaying the next program information is the onset of a preset time.

The Examiner relies upon Fig. 7 and column 9, line 65 to column 10, line 20 of Young et al. as disclosing this feature. However, this portion of Young et al. does not disclose that the triggering event in displaying next program information is the reaching of a preset time. Instead, the triggering event is the pressing of the “What’s on TV Key.” Specifically, this portion of Young et al. discloses toggling between the grid guide 24 (Fig. 6) and the What’s Next on Channel row guide 58. Fig. 8 illustrates the flow diagram for determining whether the grid guide 24 or row guide 58 is displayed. As illustrated in Fig. 8, the grid guide 24 and row guide 58 are toggled each time the “What’s on TV Key” yields a “yes” result.

Thus, even assuming, *arguendo*, that the row guide 58 displays next program information, it is not the onset of a preset time that is the triggering event for displaying the next program information. Instead, Young et al relies upon a toggle key as the triggering event.

Accordingly, withdrawal of the rejection of independent claim 7, and claims 8 and 9 depending therefrom, is requested.

Independent claims 1, 12-13, 17, 21, 28-31 and 33-35 recite similar features.

Accordingly, withdrawal of these claims, and all claims depending therefrom, is requested.

REJECTIONS IN VIEW OF 35 U.S.C. §103:

In the Office Action at pages 8-9, item 5, claims 8-9 and 25-27 were rejected under 35 U.S.C. §103(a) as being unpatentable over Young et al. in view of U.S. Patent No. 5,542,088 to Jennings, Jr. et al. This rejection is respectfully traversed in view of the following arguments.

Claims 8-9 depend from claim 1 and are therefore distinguishable from Young et al. for at least the above reasons.

Jennings, Jr. et al. does not overcome the deficiencies in Young et al. and is not relied upon by the Examiner as such. Instead, the Examiner relies upon Jennings, Jr. et al. as disclosing a percentage calibrated time bar for indicating the percentage of the progressive program. Accordingly, withdrawal of the rejection of claims 8-9 is requested.

Claim 25 depends from claim 17, which recites "displaying the program progress time of the currently viewed program . . . in response to a command from a user to perform a function other than displaying the program progress time upon receipt of the command . . . the command being one of . . . setting of a preset time prior to a program termination of the currently viewed program." It is respectfully submitted that neither of the Examiner's cited references disclose this feature.

Independent claim 26 recites "displaying the program progress time of the currently viewed program simultaneously with the currently viewed program automatically at a preset time." As discussed above with respect to claims 17 and 25, the Examiner's cited references do not include these features.

Accordingly, withdrawal of the rejection of claim 26 is requested.

Independent claim 27 recites "displaying the program progress time . . . automatically at a preset time." This feature is not disclosed by Young et al. and Jennings Jr. et al. for similar reasons as noted above. Accordingly, withdrawal of the rejection of claim 27 is requested.

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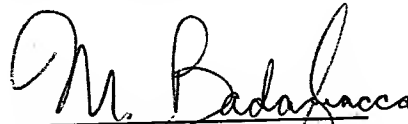
CONCLUSION:

In view of the foregoing amendments and remarks, it is respectfully submitted that each of the claims patentably distinguishes over the prior art, and therefore defines allowable subject matter. A prompt and favorable reconsideration of the rejection along with an indication of allowability of all pending claims are therefore respectfully requested.

Should there be any remaining questions to correct formal matters, it is urged that the Examiner contact the undersigned at his convenience for a telephone interview to expedite and complete prosecution.

Please charge any fees or credit any overpayment pursuant to 37 CFR 1.16 or 1.17 to our Deposit Account No. 19-3935.

Respectfully submitted,
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

Although all claims have not been amended hereby, all pending claims are set forth below for the Examiner's convenience.

Please **CANCEL** claim 18 without prejudice or disclaimer. Please **AMEND** claims 1, 6-7, 13, 17, 21-22, 26, 28, and 33-35 as follows:

1. (THREE TIMES AMENDED) A method of displaying a program progress time on a signal receiver which receives and processes program guide information containing a program schedule, comprising the steps of:
 - (a) storing the program guide information;
 - (b) setting a command of the signal receiver which is commonly usable by a user as a display command to display time information about a currently viewed program; and
 - (c) displaying the time information about the currently viewed program together with the currently viewed program when the user issues the display command set in said step (b), the time information comprising a beginning time with respect to the currently viewed program; and
(d) displaying next program information when a remaining program time reaches a preset time.
3. (AS ONCE AMENDED) A method of displaying a program progress time as claimed in claim 1, wherein the time information further comprises a program terminating time of the currently viewed program.
4. (AS TWICE AMENDED) A method of displaying a program progress time as

claimed in claim 3, wherein the time information further comprises a current time with respect to the currently viewed program.

5. (AS FILED) A method of displaying a program progress time as claimed in claim 4, wherein the time information includes the program progress time determined by subtracting the beginning time from the current time.

6. (ONCE AMENDED) A method of displaying a program progress time as claimed in claim 5, wherein the time information further comprises [a] the remaining program time determined by subtracting the current time from the program terminating time.

7. (TWICE AMENDED) A method of displaying a program progress time on a signal receiver which receives and processes program guide information containing a program schedule, comprising:

storing the program guide information;

displaying time information about a currently viewed program on the signal receiver when a user issues a display command; and

displaying next program information when a [the] remaining program time reaches a preset time.

8. (AS FILED) A method of displaying a program progress time as claimed in claim 7, wherein the time information further comprises a percentage of the program progress time as compared with a total program broadcasting time calculated by subtracting the beginning time from the program terminating time.

9. (AS FILED) A method of displaying a program progress time as claimed in claim 8, wherein the time information further comprises a percentage of the remaining program time as compared with the total program broadcasting time.

10. (AS ONCE AMENDED) A method of displaying a program progress time as claimed in claim 1, wherein the commonly usable command of the signal receiver is a command for a channel up/down.

11. (AS ONCE AMENDED) A method of displaying a program progress time as claimed in claim 1, wherein the commonly usable command of the signal receiver is a command for a remote controller event.

12. (AS ONCE AMENDED) A method of displaying a program progress time on a signal receiver which receives and processes program guide information containing a program schedule, comprising:

storing the program guide information;

displaying time information about a currently viewed program on the signal receiver when a user issues a display command set; and

judging that the command for displaying the program progress time is issued by the user so as to display the program progress time at a preset time set by the user prior to a program terminating time of the currently viewed program.

13. (THREE TIMES AMENDED) A method of displaying a program progress time in a signal receiver which receives and processes program guide information containing a program schedule, comprising the steps of:

receiving and storing the program guide information;
displaying a program terminating time of the currently viewed program;
determining a total program broadcasting time of a currently viewed program by
subtracting a program beginning time from the program terminating time of the currently viewed
program when a user issues a command requesting the displaying of the program progress time
of the currently viewed program;
determining the program progress time by subtracting the beginning time from a current
time;
displaying a display bar representing the total program broadcasting time; and
displaying the display bar so as to indicate a position on the display bar corresponding to
the program progress time at a preset time set by the user.

14. (AS FILED) A method of displaying a program progress time as claimed in claim
13, further comprising the step of displaying the display bar by distinguishing between a portion
of the program progress time elapsed and a remaining program progress time portion.

15. (AS FILED) A method of displaying a program progress time as claimed in claim
14, further comprising the step of displaying the program progress time on a portion of the
display bar between a starting position of the display bar and a position corresponding to the
program progress time on the display bar.

16. (AS FILED) A method of displaying a program progress time as claimed in claim
14, comprising the step of displaying the remaining program progress time on a portion of the
display bar between a position corresponding to the program progress time and an end position
of the display bar.

17. (THREE TIMES AMENDED) A method of displaying a program progress time of a currently viewed program of a signal receiver, the method comprising the steps of:

receiving program guide information including a program schedule having the currently viewed program; and

displaying the program progress time of the currently viewed program simultaneously with the currently viewed program in response to a command from a user to perform a function other than displaying the program progress time upon receipt of the command,

the program progress time including a current time,

the command being one of an activating a channel up/down key, determining an occurrence of a remote controller event, and setting of a preset time prior to a program termination of the currently viewed program.

18. (AS FILED) The method as claimed in claim 17, wherein the command is one of an activating a channel up/down key, determining an occurrence of a remote controller event, and setting of a preset time prior to a program termination of the currently viewed program.

20. (AS FILED) The method as claimed in claim 17, further comprising the steps of:
generating a setup display for the user to designate ones of a plurality of commands to function as the command to perform the function other than displaying the program progress time upon receipt of the command; and

receiving inputs from the user designating the ones of the plurality of the commands to function as the command to perform the function other than displaying the program progress time upon receipt of the command.

21. (TWICE AMENDED) A method of displaying a program progress time of a currently viewed program of a signal receiver, the method comprising:

receiving program guide information including a program schedule having the currently viewed program;

displaying a program progress time of the currently viewed program in response to a command from a user to perform a function other than displaying the program progress time upon receipt of the command; and

displaying next program information of a next program on a same channel as the currently viewed program at [the] a preset time prior to the program termination of the currently viewed program.

22. (ONCE AMENDED) The method as claimed in claim 17, further comprising the steps of:

generating a setup display for the user to designate ones of a plurality of commands to function as the command to perform the function other than displaying the program progress time upon receipt of the command, wherein [a one of] the plurality of commands further comprises [is to display] displaying the program progress time at [a] the preset time prior to a program termination of the currently viewed program, and for the user to designate another command to display next program information on a same channel as the currently viewed program at the preset time;

receiving inputs from the user designating whether the ones of the plurality of the commands are to function as the command to perform the function other than displaying the program progress time upon receipt of the command; and

displaying the next program information at the preset time if the first and the another commands are set by the user positively.

23. (AS ONCE AMENDED) The method as claimed in claim 17, wherein the program progress time further includes a program beginning time, and a program termination time of the currently viewed program.

24. (AS FILED) The method as claimed in claim 23, wherein the program progress time further includes a channel number, a name of a broadcast station and a title of the currently viewed program.

25. (TWICE AMENDED) The method as claimed in claim 23, wherein said displaying step comprises the step of displaying the program beginning time at a start of a display bar, the program termination time at an end of the display bar, and the current time at a position of the display bar corresponding to a percentage of time elapsed versus a total time of the currently viewed program.

26. (THREE TIMES AMENDED) A method of displaying a program progress time including a program beginning time, a current time, and a program terminating time of a currently viewed program of a signal receiver, the method comprising:

receiving program guide information including a program schedule having the currently viewed program;

displaying the program progress time of the currently viewed program simultaneously with the currently viewed program automatically at a preset time [in response to a command from a user to perform a function other than displaying the program progress time upon receipt of the command] wherein said displaying the program progress time further comprises displaying the beginning time at a start of a display bar, the program termination time at an end

of the display bar, and the current time at a position of the display bar corresponding to a percentage of time elapsed versus a total time of the currently viewed program, and displaying a first percentage number of the time elapsed and a second percentage number of a time remaining versus the total time of the currently viewed program.

27. (AS ONCE AMENDED) A method of displaying a program progress time including a program beginning time, a current time, and a program terminating time of a currently viewed program of a signal receiver, the method comprising:

receiving program guide information including a program schedule having the currently viewed program; and

displaying the program progress time of the currently viewed program in response to a command from a user to perform a function other than displaying the program progress time upon receipt of the command wherein said displaying the program progress time further comprises displaying the beginning time at a start of a display bar, the program termination time at end of the display bar, and the current time at a position of the display bar corresponding to a percentage of time elapsed versus a total time of the currently viewed program and the command is to display the program progress time automatically at a preset time prior to a program termination of the currently viewed program.

28. (THREE TIMES AMENDED) A device for displaying a program progress time, comprising:

a receiving unit to receive a program and a program guide containing a program schedule which includes information on a TV program;

a processor to produce data for displaying the program progress time in response to the command from the user;

a video output unit to mix video data of the program and said data for displaying the program progress time of the program, to output a resulting signal; and
a display to display the resulting signal and next program information automatically at a preset time,
the program progress time including a program beginning time of the TV program.

29. (AS ONCE AMENDED) A device for displaying a program progress time,
comprising:

a receiving unit to receive a TV program and a TV program guide containing a program schedule which includes information on the TV program;

a user interface to enable entry of a command from a user requesting display of the program progress time;

an audio output unit to generate an audio signal of the TV program;

a processor to produce On-Screen-Graphic data for displaying the program progress time in response to the command from the user and based upon the program schedule;

a video output unit to mix video data of the TV program and On-Screen-Graphic data of the TV program, to output a resulting signal; and

a display to display the resulting signal wherein the command is one of an activating a channel up/down key, determining an occurrence of a remote controller event, and setting of a preset time prior to a program termination of the currently viewed program.

30. (AS ONCE AMENDED) A device for displaying a program progress time,
comprising:

a receiving unit to receive a TV program and a TV program guide containing a program schedule which includes information on the TV program;

a user interface to enable entry of a command from a user requesting display of the program progress time;

an audio output unit to generate an audio signal of the TV program;

a processor to produce On-Screen-Graphic data for displaying the program progress time in response to the command from the user and based upon the program schedule;

a video output unit to mix video data of the TV program and On-Screen-Graphic data of the TV program, to output a resulting signal; and

a display to display the resulting signal wherein said processor produces ON-Screen Graphic data for displaying next program information of a next program on a same channel as the TV program at a preset time prior to a program termination of the TV program.

31. (AS ONCE AMENDED) A method of displaying a program progress time of a currently viewed program comprising:

issuing a user-initiated display command; and

displaying a program terminating time of the currently viewed program at a preset time set by the user prior to a program terminating time of the currently viewed program.

33. (TWICE AMENDED) A method of displaying a program progress time on a signal receiver which receives and processes program guide information containing a program schedule, comprising the steps of:

storing the program guide information; [and]

displaying time information about a currently viewed program together with the currently viewed program on the signal receiver when a user issues a display command set, the time information including a beginning time, a current time, and a terminating time of the currently viewed program; and

displaying next program information when the time information reaches a preset time.

34. (TWICE AMENDED) A method of outputting a program progress time information to a display, comprising the steps of:

receiving program guide information containing a program schedule;

storing the program guide information; [and]

outputting the time information about a currently viewed program together with the currently viewed program on the display when a user issues a display command set, the time information including a beginning time, a current time, and a terminating time of the currently viewed program; and

displaying the time information automatically when the current time reaches a preset time.

35. (ONCE AMENDED) A method of displaying a program progress time on a signal receiver which receives and processes program guide information containing a program schedule, the method comprising:

storing the program guide information; and

displaying time information about a currently viewed program together with the currently viewed program automatically at a preset time [when a user issues a display command], the time information comprising a beginning time with respect to the currently viewed program.